PROBLEM:

For the *aliased sinc* function:

$$\text{asinc}(\hat{\omega}, 8) = \frac{\sin(4\hat{\omega})}{\sin(\frac{1}{2}\hat{\omega})}$$

(a) Make a plot of $\text{asinc}(\hat{\omega}, 8)$ over the range $-3\pi \leq \hat{\omega} \leq +3\pi$. Label all the zero crossings.

(b) Determine the period of $\text{asinc}(\hat{\omega}, 8)$.

(c) Find the maximum value of the function.

NOTE: the *aliased sinc* function is defined via: $\text{asinc}(\hat{\omega}, L) = \dfrac{\sin(L\hat{\omega}/2)}{\sin(\frac{1}{2}\hat{\omega})}$